



# T1170/1171 Series TCXO

10MHz – 300MHz

(Rev C)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

High Frequency TCXO  
Tight Stability

## SPECIFICATIONS

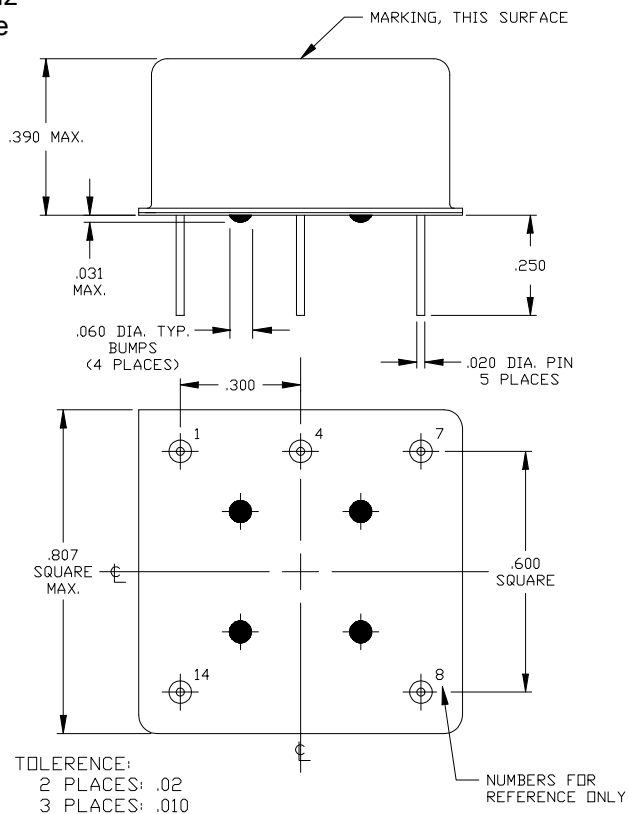
|                         |  |                     |               |
|-------------------------|--|---------------------|---------------|
| <b>Frequency</b>        | 10.0 MHz to 300.0 MHz  |                     |               |
| <b>Output</b>           | T1170 - Squarewave, AC MOS (available at 10 to 125 MHz only)<br>T1171 – Sinewave, 0 dBm min into 50 ohms |                     |               |
| <b>Harmonics</b>        | -20 dBc (Sinewave version)   |                     |               |
| <b>Symmetry</b>         | 50% ± 10% (Squarewave version)   |                     |               |
| <b>Temp Stability</b>   | <b>Temp Range</b>  | <b>Tolerance</b>    | <b>Option</b> |
|                         | -10 to +60°C   | ±3x10 <sup>-7</sup> | G37           |
|                         | -30 to +70°C   | ±4x10 <sup>-7</sup> | N47           |
|                         | -40 to +85°C   | ±5x10 <sup>-7</sup> | T57           |
|                         | -40 to +85°C   | ±1x10 <sup>-6</sup> | T16           |
| <b>Freq vs. Supply</b>  | ±1x10 <sup>-7</sup> /% change  |                     |               |
| <b>Aging</b>            | ±2x10 <sup>-9</sup> per day after 30 days (10 MHz typ)   |                     |               |
| <b>Supply V</b>         | available in +5 or +3.3 VDC  |                     |               |
| <b>Phase Noise</b>      | 10 Hz  | -95 dBc/Hz          |               |
| (typ @ 10MHz)           | 100 Hz   | -125 dBc/Hz         |               |
|                         | 1 kHz  | -140 dBc/Hz         |               |
|                         | 10 kHz   | -150 dBc/Hz         |               |
|                         | 100 kHz  | -155 dBc/Hz         |               |
| <b>Frequency Adjust</b> | ±5.0 ppm typ, positive slope<br>0 to V <sub>supply</sub> EFC   |                     |               |

Ordering Example:

T1170-T57-3.3-20MHz  
(Model-Stability-Input V-Freq)

### Pin Connections

- 1 - Supply V
- 4 - Output
- 7 - 0V/Case Gnd
- 8 - EFC
- 14 - N/C (Pin used by Factory)



To inquire about available custom parameters please contact us at [sales@greenrayindustries.com](mailto:sales@greenrayindustries.com).

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